oceedings of the Indian Academy of Sciences

QE
1
P733

(Earth and Planetary Sciences)

Volume 92, 1983

CONTENTS

rticle accelerator measurements of ^{10}Be in marine accumulations: Intercom-
rison with beta counting method *P Sharma, B L K Somayajulu, D Lal, W Wolfli, G Bonani, Ch Stoller, M Suter and J Beer* 1

orldwide features of the strength of recurrent geomagnetic activity
G K Rangarajan and A Bhattacharyya 5

alytical representation of spatial and temporal variations of the geomagnetic
d in the Indian region *B R Arora, V H Badshah, B P Singh, M G Arur, P S Bains and Jeevan Lal* 15

ar cycle and equatorial stratopause temperature
K Mohanakumar and S Devanarayanan 31

ense night-time equatorial radio scintillations by sporadic *E* layers
R G Rastogi 37

lices of equatorial electrojet and counter-electrojet in the Indian region:
olution of the indices and their authenticity
B N Bhargava, B R Arora and N S Sastri 45

wer spectrum of brightness temperature fluctuations derived from solar
pse observations at 2.8 GHz
S K Alurkar, S S Degaonkar and R V Bhonsle 57

antitative estimation of groundwater potentiality and rainfall infiltration in
ypical crystalline environment *B H Briz-Kishore* 63

kaline basic intrusives of Elchuru, Prakasam District, Andhra Pradesh,
lia *Sattrajit Nag, T E Smith and P S Chakravorty* 73

eliminary pedogeochemical and biogeochemical studies on the Hinota
nberlite, Panna District, MP *S M Mathur and P O Alexander* 81

e Kalpatta granite, Wynad District, Kerala (India) and its petrochemistry
N G K Nair, P K Thampi, M Santosh and G S Nair 89

mperature variation in the mesosphere during solar eclipse
P Chakrabarty, D K Chakrabarty and A K Saha 99

plication of a semi-implicit scheme of integration to barotropic prediction
S S Singh and A Bandopadhyay 105

bility of a stationary Rossby wave embedded in barotropic monsoon zonal
w *S K Dash and R N Keshavamurty* 115

Recent foraminifers from the inner shelf of the central West Coast, India: A reappraisal using factor analysis *Rajiv Nigam and Jorn Thiede*

Petrochemistry of granite and granophyres of the Ezhimala igneous complex, Kerala, India *N G K Nair and M Santosh*

Lithological subdivision and petrology of the Great Himalayan Vaikrita Group in Kumaun, India *K S Valdiya and O P Goel*

Very low frequency electromagnetic prospecting method — A few field applications in India *I B Rama Prasada Rao, R Nagendra, S L Narasimha Rao and J Venkatramaiah*

Interpretation of gravity anomalies due to some two-dimensional structures: A Hilbert transform technique *N Sundararajan, N L Mohan and S V Seshagiri Rao*

Synthetic *P* wave seismograms from Longshot, Milrow and Cannikin explosions *A R Banghar*

Source time function and spectra for underground explosions *A R Banghar*

Characteristics of Pi2 pulsations at an equatorial station and its occurrence association with the phase of the Moon *Neeta H Majmudar and D R K Rao*

Estimation of the waiting time distributions of earthquakes *S M J R Goel, S K Malasi, P S Moharir, H R Wason, K N Khattri and V K Gaur*

Daily variation of the geomagnetic field near the focus of Sq-current system in Indian longitude *Asha Patil, B R Arora and R G Rastogi*

Low latitude airglow *P V Kulkarni*

Ice accumulation rate in Changme-Khangpu glacier, Sikkim *P N Shukla, N Bhandari, V N Nijampurkar, D Kameswara Rao, V M K Puri and Sanjiv Sharma*

Hypotheses for earthquake occurrences *Naveen, P S Moharir and V K Gaur*

Electron microscopy of olivine with perfect cleavage *T R N Kutty, G N Subbanna and G V Anantha Iyer*

Granite-molybdenite association in Kerala in relation to taphrogenic metallogeny *M Santosh and N G K Nair*